AU 1806

Page: 1



Raw Sequence Listing

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Please submit
you next disk
in "Text only."

		(Error on p. 14)
1		SEQUENCE LISTING
2		* In addition this
3 4	(1)	GENERAL INFORMATION  # In addition, this file was saved
5	(1)	
6	(i)	APPLICANT: Darrell Anderson, Nabil Hanna, John in "Norma"
7	(22)	TITLE OF INVENTION: THERAPEUTIC APPLICATION OF FORMAL &
8 9	(ii)	TITLE OF INVENTION: THERAPEUTIC APPLICATION OF FORMAT &  NUMBER OF SEQUENCES: 8  COULD not in H
10	(iii) l	NUMBER OF SEQUENCES: 8
11		110 00117070
12 13	(iv)	corresponding address:
14	(A)	ADDRESSEE: IDEC Pharmaceuticals Corporation read the dis
15	(B)	STREET: 11099 N. Torrey Pines Road, #160
16	(C)	CITY: La Jolla
17	(D)	STATE: California
18 19	(E)	COUNTRY: USA ZIP: 92037
20	(F)	ZIP: 92037
21	(v)	STREET: 11099 N. Torrey Pines Road, #160  CITY: La Jolla  STATE: California  COUNTRY: USA  ZIP: 92037  COMPUTER READABLE FORM:
22		
23	(A)	MEDIUM TYPE: Diskette, 3.5 inch, 1.44 Mb
24	(B)	COMPUTER: Macintosh
25 26	(C) (D)	OPERATING SYSTEM: MS.DOS SOFTWARE: Microsoft Word 5.0
27	(D)	SOFIWARE: MICROSOIC WOLD 5.0
28	(vi)	CURRENT APPLICATION DATA:
29		
30	(A)	APPLICATION NUMBER: US/07/978,891A
31	(B)	FILING DATE: 13 NOV 1992
32 33	(C)	CLASSIFICATION: 424
34	(viii)	ATTORNEY/AGENT INFORMATION:
35	·	
36	(A)	NAME: Burgoon, Richard P. Jr.
37	(B)	REGISTRATION NUMBER: 34,787
38	(C)	REFERENCE/DOCKET NUMBER:
39 40	(ix)	TELECOMMUNICATION INFORMATION:
41	(141)	
42	(A)	TELEPHONE: (619) 458-0600
43	(B)	TELEFAX: (619) 546-9274
44	(2)	THEODWARDON BOD GEO TO NO . 1.
45 46	(2)	INFORMATION FOR SEQ ID NO.: 1:
47	(i)	SEQUENCE CHARACTERISTICS:
48		
49	(A)	LENGTH: 8540 bases
50	(B)	TYPE: nucleic acid
51	(C)	STRANDEDNESS: single
52	(D)	TOPOLOGY: circular

# Raw Sequence Listing

04/08/93 12:14:17 S4313.raw

53 54	(ii) MO	LECULE TYPE:	DNA (gene	omic)			
55	(11) MO.	DECOLE III.	. DIA (gene	JAKE (			
56	(iii) HYPO	THETICAL: 1	10				
57							
58	(iv) AN	ri-sense: 1	10				
59	(1)				-		
60	(ix) SE	QUENCE DESCI	RIPTION: SE	SQ ID NO.:	1:		
61 62	GACGTCGCGG	CCGCTCTAGG	CCTCCAAAAA	AGCCTCCTCA	CTACTTCTGG	AATAGCTCAG	60
63	00020000						
64	AGGCCGAGGC	GGCCTCGGCC	TCTGCATAAA	TAAAAAAAT	TAGTCAGCCA	TGCATGGGGC	120
65							
66	GGAGAATGGG	CGGAACTGGG	CGGAGTTAGG	GGCGGGATGG	GCGGAGTTAG	GGGCGGGACT	180
67 68	<b>አ</b> ጥርርጥጥርርጥር	аста аттса с	ልጥርር ልጥርር ጥጥ	тасатасттс	тесстестее	GGAGCCTGGG	240
69	HIGGIIGGIG	10111111111			1000100100		
70	GACTTTCCAC	ACCTGGTTGC	TGACTAATTG	AGATGCATGC	TTTGCATACT	TCTGCCTGCT	300
71							
72	GGGGAGCCTG	GGGACTTTCC	ACACCCTAAC	TGACACACAT	TCCACAGAAT	TAATTCCCCT	360
73 74	· አርጥጥአጥጥእልጥ	አርጥአ አጥሮ እ አጥ	тассесстса	ттасттсата	ССССАТАТАТ	GGAGTTCCGC	420
75	AGIIAIIAAI	AGIMICILII	Incoocciui		0000		
76	GTTACATAAC	TTACGGTAAA	TGGCCCGCCT	GGCTGACCGC	CCAACGACCC	CCGCCCATTG	480
77							
78	ACGTCAATAA	TGACGTATGT	TCCCATAGTA	ACGCCAATAG	GGACTTTCCA	TTGACGTCAA	540
79 80	тссстссаст	ል <b>ጥጥ</b> አርረርጥ ል	AACTGCCCAC	ттсссастас	<b>АТСААСТСТА</b>	TCATATGCCA	600
81	1GGG1GGAC1	AIIIACOOIA	meroccae	TTOOGIOTAC			
82	AGTACGCCCC	CTATTGACGT	CAATGACGGT	AAATGGCCCG	CCTGGCATTA	TGCCCAGTAC	660
83							
84	ATGACCTTAT	GGGACTTTCC	TACTTGGCAG	TACATCTACG	TATTAGTCAT	CGCTATTACC	720
85 86	ATCCTCATCC	ССТТТТССС	СТАСАТСААТ	ссссстссат	AGCGGTTTGA	CTCACGGGGA	780
87	AIGGIGAIGC	33111133011	GINCHI CILLI	0000010411			
88	TTTCCAAGTC	TCCACCCCAT	TGACGTCAAT	GGGAGTTTGT	TTTGGCACCA	AAATCAACGG	840
89							
90	GACTTTCCAA	AATGTCGTAA	CAACTCCGCC	CCATTGACGC	AAATGGGCGG	TAGGCGTGTA	900
91 92	СССТСССАСС	тстататаас	CAGAGCTGGG	TACGTGAACC	GTCAGATCGC	CTGGAGACGC	960
93	0001000100						
94	CATCACAGAT	CTCTCACCAT	GAGGGTCCCC	GCTCAGCTCC	TGGGGCTCCT	GCTGCTCTGG	1020
95							
96	CTCCCAGGTG	CACGATGTGA	TGGTACCAAG	GTGGAAATCA	AACGTACGGT	GGCTGCACCA	1080
97 98	<b>ጥርጥርጥርጥጥ</b> ር እ	<b>ጥርጥጥርርርር</b>	ATCTGATGAG	САСТТСАВАТ	CTGGAACTGC	CTCTGTTGTG	1140
99							
100	TGCCTGCTGA	ATAACTTCTA	TCCCAGAGAG	GCCAAAGTAC	AGTGGAAGGT	GGATAACGCC	1200
101							
102	CTCCAATCGG	GTAACTCCCA	GGAGAGTGTC	ACAGAGCAGG	ACAGCAAGGA	CAGCACCTAC	1260
103 104	ልርርርጥርአርርአ	ССУ СССТСУ С	GCTGAGCAAA	GCAGACTACG	AGAAACACAA	AGTCTACGCC	1320
TOT	AGCCICAGCA	SCACCCIGAC	CLIGAGUAAA	CONGACIACO	AGAMACACAA	ACGCC	1520

# Raw Sequence Listing

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105							
106 107	TGCGAAGTCA	CCCATCAGGG	CCTGAGCTCG	CCCGTCACAA	AGAGCTTCAA	CAGGGGAGAG	1380
108 109	TGTTGAATTC	AGATCCGTTA	ACGGTTACCA	ACTACCTAGA	CTGGATTCGT	GACAACATGC	1440
110 111	GGCCGTGATA	TCTACGTATG	ATCAGCCTCG	ACTGTGCCTT	CTAGTTGCCA	GCCATCTGTT	1500
112 113	GTTTGCCCCT	CCCCCGTGCC	TTCCTTGACC	CTGGAAGGTG	CCACTCCCAC	TGTCCTTTCC	1560
114 115	TAATAAAATG	AGGAAATTGC	ATCGCATTGT	CTGAGTAGGT	GTCATTCTAT	TCTGGGGGGT	1620
116 117	GGGGTGGGGC	AGGACAGCAA	GGGGGAGGAT	TGGGAAGACA	ATAGCAGGCA	TGCTGGGGAT	1680
118 119	GCGGTGGGCT	CTATGGAACC	AGCTGGGGCT	CGACAGCTAT	GCCAAGTACG	CCCCCTATTG	1740
120 121	ACGTCAATGA	CGGTAAATGG	CCCGCCTGGC	ATTATGCCCA	GTACATGACC	TTATGGGACT	1800
122 123	TTCCTACTTG	GCAGTACATC	TACGTATTAG	TCATCGCTAT	TACCATGGTG	ATGCGGTTTT	1860
124 125	GGCAGTACAT	CAATGGGCGT	GGATAGCGGT	TTGACTCACG	GGGATTTCCA	AGTCTCCACC	1920
126 127		CAATGGGAGT				CCAAAATGTC	1980
128 129		CGCCCCATTG					2040
130 131		TGGGTACGTC					2100
132 133		GCCTCATCTT					2160
134 135		CGGTCTTCCC					2220
136 137	GCCCTGGGCT	GCCTGGTCAA	GGACTACTTC	CCCGAACCGG	TGACGGTGTC	GTGGAACTCA	2280
138 139		CCAGCGGCGT					2340
140 141		GCGTGGTGAC					2400
142 143		ACAAGCCCAG					2460
144 145		ACACATGCCC					2520
146 147						TGAGGTCACA	2580
148 149						GTACGTGGAC	2640
150 151						CAGCACGTAC	2700
152 153						GGAGTACAAG	2760
154 155						CAAAGCCAAA	2820
156	GGGCAGCCCC	GAGAACCACA	GGTGTACACC	CTGCCCCCAT	CCCGGGATGA	GCTGACCAAG	2880

## Raw Sequence Listing

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157							
158	AACCAGGTCA	GCCTGACCTG	CCTGGTCAAA	GGCTTCTATC	CCAGCGACAT	CGCCGTGGAG	2940
159							
160	TGGGAGAGCA	ATGGGCAGCC	GGAGAACAAC	TACAAGACCA	CGCCTCCCGT	GCTGGACTCC	3000
161							
162	СУССССТССТ	TCTTCCTCTA	CAGCAAGCTC	ACCGTGGACA	AGAGCAGGTG	GCAGCAGGGG	3060
163	GACCCCICCI	10110010111	303.2.0020				
164	እ እ <b>උ</b> ርጥረጥጥረጥ	CATGCTCCGT	СУТССУТСУС	ССТСТССАСА	ACCACTACAC	GCAGAAGAGC	3120
165	MCGICIICI	CAIGCICCGI	GHIOCHIONO	ccrcroman			
166	amamaaaaaa	CTCCGGGTAA	<b>እ</b> ሞር እርር እሞር ር	ርጥጥ እ እ ሮርርጥጥ	ACCA ACTACC	та са Стсса т	3180
167	CICICCCIGI	CICCGGGIAA	AIGAGGAICC	GIIAACGGII	ACCAMOIACO	1110110110111	3100
168	таата азза	ATGCGGCCGT	CAMAMONACO	<b>#3#</b> ##################################	ביייביים ביייביים	ССФФСФХСФФ	3240
	TCGTGACAAC	ATGCGGCCGI	GAIAICIACG	INIGNICAGE	CICGACIGIG	CCIICIAGII	3240
169	6661 6661 FG	mammammaa	ааатаааааа	maaammaamm	C A C C C C C C A A	COMCCONCMC	3300
170	GCCAGCCATC	TGTTGTTTGC	CCCTCCCCCG	TGCCTTCCTT	GACCCIGGAA	GGIGCCACIC	3300
171						> CCMCMC> MM	2260
172	CCACTGTCCT	TTCCTAATAA	AATGAGGAAA	TTGCATCGCA	TTGTCTGAGT	AGGTGTCATT	3360
173					GG1	G1 G1 1 M1 GG1	2420
174	CTATTCTGGG	GGGTGGGGTG	GGGCAGGACA	GCAAGGGGGA	GGATTGGGAA	GACAATAGCA	3420
175						acamaca mam	2400
176	GGCATGCTGG	GGATGCGGTG	GGCTCTATGG	AACCAGCTGG	GGCTCGACAG	CGCTGGATCT	3480
177							2=42
178	CCCGATCCCC	AGCTTTGCTT	CTCAATTTCT	TATTTGCATA	ATGAGAAAAA	AAGGAAAATT	3540
179							2600
180	AATTTTAACA	CCAATTCAGT	AGTTGATTGA	GCAAATGCGT	TGCCAAAAAG	GATGCTTTAG	3600
181							2552
182	AGACAGTGTT	CTCTGCACAG	ATAAGGACAA	ACATTATTCA	GAGGGAGTAC	CCAGAGCTGA	3660
183							
184	GACTCCTAAG	CCAGTGAGTG	GCACAGCATT	CTAGGGAGAA	ATATGCTTGT	CATCACCGAA	3720
185							
186	GCCTGATTCC	GTAGAGCCAC	ACCTTGGTAA	GGGCCAATCT	GCTCACACAG	GATAGAGAGG	3780
187							
188	GCAGGAGCCA	GGGCAGAGCA	TATAAGGTGA	GGTAGGATCA	GTTGCTCCTC	ACATTTGCTT	3840
189							
190	CTGACATAGT	TGTGTTGGGA	GCTTGGATAG	CTTGGACAGC	TCAGGGCTGC	GATTTCGCGC	3900
191							
192	CAAACTTGAC	GGCAATCCTA	GCGTGAAGGC	TGGTAGGATT	TTATCCCCGC	TGCCATCATG	3960
193							
194	GTTCGACCAT	TGAACTGCAT	CGTCGCCGTG	TCCCAAAATA	TGGGGATTGG	CAAGAACGGA	4020
195							
196	GACCTACCCT	GGCCTCCGCT	CAGGAACGAG	TTCAAGTACT	TCCAAAGAAT	GACCACAACC	4080
197							
198	TCTTCAGTGG	AAGGTAAACA	GAATCTGGTG	ATTATGGGTA	GGAAAACCTG	GTTCTCCATT	4140
199							
200	CCTGAGAAGA	ATCGACCTTT	AAAGGACAGA	ATTAATATAG	TTCTCAGTAG	AGAACTCAAA	4200
201							
202	GAACCACCAC	GAGGAGCTCA	TTTTCTTGCC	AAAAGTTTGG	ATGATGCCTT	AAGACTTATT	4260
203							
204	GAACAACCGG	AATTGGCAAG	TAAAGTAGAC	ATGGTTTGGA	TAGTCGGAGG	CAGTTCTGTT	4320
205							
206	TACCAGGAAG	CCATGAATCA	ACCAGGCCAC	CTTAGACTCT	TTGTGACAAG	GATCATGCAG	4380
207							
208	GAATTTGAAA	GTGACACGTT	TTTCCCAGAA	ATTGATTTGG	GGAAATATAA	ACTTCTCCCA	4440

# Raw Sequence Listing

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209							
210 211	GAATACCCAG	GCGTCCTCTC	TGAGGTCCAG	GAGGAAAAAG	GCATCAAGTA	TAAGTTTGAA	4500
212 213	GTCTACGAGA	AGAAAGACTA	ACAGGAAGAT	GCTTTCAAGT	TCTCTGCTCC	CCTCCTAAAG	4560
214 215	CTATGCATTT	TTATAAGACC	ATGGGACTTT	TGCTGGCTTT	AGATCAGCCT	CGACTGTGCC	4620
216 217	TTCTAGTTGC	CAGCCATCTG	TTGTTTGCCC	CTCCCCGTG	CCTTCCTTGA	CCCTGGAAGG	4680
218 219	TGCCACTCCC	ACTGTCCTTT	CCTAATAAAA	TGAGGAAATT	GCATCGCATT	GTCTGAGTAG	4740
220 221	GTGTCATTCT	ATTCTGGGGG	GTGGGGTGGG	GCAGGACAGC	AAGGGGGAGG	ATTGGGAAGA	4800
222 223	CAATAGCAGG	CATGCTGGGG	ATGCGGTGGG	CTCTATGGAA	CCAGCTGGGG	CTCGAGCTAC	4860
224 225	TAGCTTTGCT	TCTCAATTTC	TTATTTGCAT	AATGAGAAAA	AAAGGAAAAT	TAATTTTAAC	4920
226 227	ACCAATTCAG	TAGTTGATTG	AGCAAATGCG	TTGCCAAAAA	GGATGCTTTA	GAGACAGTGT	4980
228 229	TCTCTGCACA	GATAAGGACA	AACATTATTC	AGAGGGAGTA	CCCAGAGCTG	AGACTCCTAA	5040
230 231	GCCAGTGAGT	GGCACAGCAT	TCTAGGGAGA	AATATGCTTG	TCATCACCGA	AGCCTGATTC	5100
232 233	CGTAGAGCCA	CACCTTGGTA	AGGGCCAATC	TGCTCACACA	GGATAGAGAG	GGCAGGAGCC	5160
234 235	AGGGCAGAGC	ATATAAGGTG	AGGTAGGATC	AGTTGCTCCT	CACATTTGCT	TCTGACATAG	5220
236 237	TTGTGTTGGG	AGCTTGGATC	GATCCTCTAT	GGTTGAACAA	GATGGATTGC	ACGCAGGTTC	5280
238 239	TCCGGCCGCT	TGGGTGGAGA	GGCTATTCGG	CTATGACTGG	GCACAACAGA	CAATCGGCTG	5340
240 241	CTCTGATGCC	GCCGTGTTCC	GGCTGTCAGC	GCAGGGGCGC	CCGGTTCTTT	TTGTCAAGAC	5400
242 243	CGACCTGTCC	GGTGCCCTGA	ATGAACTGCA	GGACGAGGCA	GCGCGGCTAT	CGTGGCTGGC	5460
244 245		GTTCCTTGCG					5520
246 247		GGCGAAGTGC					5580
248 249		ATCATGGCTG					5640
250 251						TGGAAGCCGG	5700
252 253	TCTTGTCGAT	CAGGATGATC	TGGACGAAGA	GCATCAGGGG	CTCGCGCCAG	CCGAACTGTT	5760
254 255	CGCCAGGCTC	AAGGCGCGCA	TGCCCGACGG	CGAGGATCTC	GTCGTGACCC	ATGGCGATGC	5820
256 257	CTGCTTGCCG	AATATCATGG	TGGAAAATGG	CCGCTTTTCT	GGATTCATCG	ACTGTGGCCG	5880
258 259						TTGCTGAAGA	5940
260	GCTTGGCGGC	GAATGGGCTG	ACCGCTTCCT	CGTGCTTTAC	GGTATCGCCG	CTCCCGATTC	6000

# Raw Sequence Listing

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261 262	CCACCCCATC	GCCTTCTATC	<b>GCCTTCTTG</b>	ССУСТТСТТС	TGAGCGGGAC	<b>TCTGGGGTTC</b>	6060
263	GCAGCGGAILC	GCCIICIAIC	occiiciion	conditions	ronocodone	1010000110	0000
264	GAAATGACCG	ACCAAGCGAC	GCCCAACCTG	CCATCACGAG	ATTTCGATTC	CACCGCCGCC	6120
265 266	TTCTATGAAA	GGTTGGGCTT	CGGAATCGTT	TTCCGGGACG	CCGGCTGGAT	GATCCTCCAG	6180
267							
268 269	CGCGGGGATC	TCATGCTGGA	GTTCTTCGCC	CACCCCAACT	TGTTTATTGC	AGCTTATAAT	6240
270	GGTTACAAAT	AAAGCAATAG	CATCACAAAT	TTCACAAATA	AAGCATTTTT	TTCACTGCAT	6300
271 272	TCTAGTTGTG	GTTTGTCCAA	ACTCATCAAT	CTATCTTATC	ATGTCTGGAT	CGCGGCCGCG	6360
273							
274 275	ATCCCGTCGA	GAGCTTGGCG	TAATCATGGT	CATAGCTGTT	TCCTGTGTGA	AATTGTTATC	6420
276	CGCTCACAAT	TCCACACAAC	ATACGAGCCG	GAAGCATAAA	GTGTAAAGCC	TGGGGTGCCT	6480
277							
278 279	AATGAGTGAG	CTAACTCACA	TTAATTGCGT	TGCGCTCACT	GCCCGCTTTC	CAGTCGGGAA	6540
280	ACCTGTCGTG	CCAGCTGCAT	TAATGAATCG	GCCAACGCGC	GGGGAGAGGC	GGTTTGCGTA	6600
281							
282	TTGGGCGCTC	TTCCGCTTCC	TCGCTCACTG	ACTCGCTGCG	CTCGGTCGTT	CGGCTGCGGC	6660
283 284	GAGCGGTATC	AGCTCACTCA	AAGGCGGTAA	TACGGTTATC	CACAGAATCA	GGGGATAACG	6720
285							
286 287	CAGGAAAGAA	CATGTGAGCA	AAAGGCCAGC	AAAAGGCCAG	GAACCGTAAA	AAGGCCGCGT	6780
288	TGCTGGCGTT	TTTCCATAGG	CTCCGCCCCC	CTGACGAGCA	TCACAAAAAT	CGACGCTCAA	6840
289						GGMGG3 3 GGM	6000
290 291	GTCAGAGGTG	GCGAAACCCG	ACAGGACTAT	AAAGATACCA	GGCGTTTCCC	CCTGGAAGCT	6900
292	CCCTCGTGCG	CTCTCCTGTT	CCGACCCTGC	CGCTTACCGG	ATACCTGTCC	GCCTTTCTCC	6960
293 294	CTTCGGGAAG	CGTGGCGCTT	TCTCAATGCT	CACGCTGTAG	GTATCTCAGT	TCGGTGTAGG	7020
295	01100001110						
296	TCGTTCGCTC	CAAGCTGGGC	TGTGTGCACG	AACCCCCCGT	TCAGCCCGAC	CGCTGCGCCT	7080
297 298	TA TO CO CTA A	CTATCGTCTT	C	CCCTAACACA	CCACTTATCC	CCACTGGCAG	7140
290 299	IAICCGGIAA	CTATCGTCTT	GAGICCAACC	CGGIAAGACA	CGACTIATCG	CCACIGGCAG	7140
300	CAGCCACTGG	TAACAGGATT	AGCAGAGCGA	GGTATGTAGG	CGGTGCTACA	GAGTTCTTGA	7200
301	» amaamaaaa	m> > cm> cccc	m>	CCA CA CMA MM	maama maraa	GCTCTGCTGA	7260
302 303	AGTGGTGGCC	TAACTACGGC	TACACTAGAA	GGACAGIAII	IGGIAICIGC	GCTCTGCTGA	7260
304	AGCCAGTTAC	CTTCGGAAAA	AGAGTTGGTA	GCTCTTGATC	CGGCAAACAA	ACCACCGCTG	7320
305	CTA COCCES	mmmmmmcoo	TCC2 2 CC2 CC	3 C 3 TT 3 C C C C	CACAAAAA	GGATCTCAAG	7380
306 307	GINGCGGTGG	TITTTGTT	IGCAAGCAGC	AGATIACGCG	HARRARADA	GGAICICAAG	, 500
308	AAGATCCTTT	GATCTTTTCT	ACGGGGTCTG	ACGCTCAGTG	GAACGAAAAC	TCACGTTAAG	7440
309 310	<b>ここと サイヤヤヤこご</b> ヤ	САТСАСАТТА	тсааааасса	<b>ጥርጥጥር አ</b> ርርጥ አ	GATCCTTTTA	AATTAAAAAT	7500
311		Crontin	- Camarata GA				,
312	GAAGTTTTAA	ATCAATCTAA	AGTATATATG	AGTAAACTTG	GTCTGACAGT	TACCAATGCT	7560

# Raw Sequence Listing

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313		
314	TAATCAGTGA GGCACCTATC TCAGCGATCT GTCTATTTCG TTCATCCATA GTTGCCTGAC 7620	
315		
316	TCCCCGTCGT GTAGATAACT ACGATACGGG AGGGCTTACC ATCTGGCCCC AGTGCTGCAA 7680	
317		
318	TGATACCGCG AGACCCACGC TCACCGGCTC CAGATTTATC AGCAATAAAC CAGCCAGCCG 7740	
319		
320	GAAGGGCCGA GCGCAGAAGT GGTCCTGCAA CTTTATCCGC CTCCATCCAG TCTATTAATT 7800	
321		
322	GTTGCCGGGA AGCTAGAGTA AGTAGTTCGC CAGTTAATAG TTTGCGCAAC GTTGTTGCCA 7860	
323	THE CONTROL OF THE CONTROL TO A CONTROL CONTROL OF THE CONTROL OF	
324	TTGCTACAGG CATCGTGGTG TCACGCTCGT CGTTTGGTAT GGCTTCATTC AGCTCCGGTT 7920	
325 326	CCCAACGATC AAGGCGAGTT ACATGATCCC CCATGTTGTG CAAAAAAGCG GTTAGCTCCT 7980	
327	CCCAACGAIC AAGGCGAGII ACAIGAICCC CCAIGIIGIG CAAAAAAGCG GIIAGCICCI /980	
328	TCGGTCCTCC GATCGTTGTC AGAAGTAAGT TGGCCGCAGT GTTATCACTC ATGGTTATGG 8040	
329	103100100 GRICGIIGIC AGAMGIANGI IGGCCGCAGI GIIRICACIC AIGGIIRIGG	
330	CAGCACTGCA TAATTCTCTT ACTGTCATGC CATCCGTAAG ATGCTTTTCT GTGACTGGTG 8100	
331	<u></u>	
332	AGTACTCAAC CAAGTCATTC TGAGAATAGT GTATGCGGCG ACCGAGTTGC TCTTGCCCGG 8160	•
333		
334	CGTCAATACG GGATAATACC GCGCCACATA GCAGAACTTT AAAAGTGCTC ATCATTGGAA 8220	
335		
336	AACGTTCTTC GGGGCGAAAA CTCTCAAGGA TCTTACCGCT GTTGAGATCC AGTTCGATGT 8280	
337		
338	AACCCACTCG TGCACCCAAC TGATCTTCAG CATCTTTTAC TTTCACCAGC GTTTCTGGGT 8340	
339		
340	GAGCAAAAAC AGGAAGGCAA AATGCCGCAA AAAAGGGAAT AAGGGCGACA CGGAAATGTT 8400	
341		
342	GAATACTCAT ACTCTTCCTT TTTCAATATT ATTGAAGCAT TTATCAGGGT TATTGTCTCA 8460	
343		
344	TGAGCGGATA CATATTTGAA TGTATTTAGA AAAATAAACA AATAGGGGTT CCGCGCACAT 8520	
345		8540
346 347	TTCCCCGAAA AGTGCCACCT	0310
348		
349	(3) INFORMATION FOR SEQ ID NO.: 2:	
350	(5) Interest to the second sec	
351	(i) SEQUENCE CHARACTERISTICS:	
352	· · · · · · · · · · · · · · · · · · ·	
353	(A) LENGTH: 9209 bases	
354	(B) TYPE: nucleic acid	
355	(C) STRANDEDNESS: single	
356	(D) TOPOLOGY: circular	
357		
358	(ii) MOLECULE TYPE: DNA (genomic)	
359		
360	(iii) HYPOTHETICAL: no	
361		
362	(iv) ANTI-SENSE: no	
363	(4-) ADDITION DESCRIPTION AND TO NO	
364	(ix) SEQUENCE DESCRIPTION: SEQ ID NO.: 2:	

## Raw Sequence Listing

04/08/93 12:14:45 S4313.raw

365							
366 367	GACGTCGCGG	CCGCTCTAGG	CCTCCAAAAA	AGCCTCCTCA	CTACTTCTGG	AATAGCTCAG	60
368							
369 370	AGGCCGAGGC	GGCCTCGGCC	TCTGCATAAA	TAAAAAAAT	TAGTCAGCCA	TGCATGGGGC	120
370 371	GGAGAATGGG	CGGAACTGGG	CGGAGTTAGG	GGCGGGATGG	GCGGAGTTAG	GGGCGGGACT	180
372		•					
373 374	ATGGTTGCTG	ACTAATTGAG	ATGCATGCTT	TGCATACTTC	TGCCTGCTGG	GGAGCCTGGG	240
37 <del>4</del> 375	GACTTTCCAC	ACCTGGTTGC	TGACTAATTG	AGATGCATGC	TTTGCATACT	TCTGCCTGCT	300
376							
377	GGGGAGCCTG	GGGACTTTCC	ACACCCTAAC	TGACACACAT	TCCACAGAAT	TAATTCCCCT	360
378 379	AGTTATTAAT	AGTAATCAAT	TACGGGGTCA	TTAGTTCATA	GCCCATATAT	GGAGTTCCGC	420
380							
381	GTTACATAAC	TTACGGTAAA	TGGCCCGCCT	GGCTGACCGC	CCAACGACCC	CCGCCCATTG	480
382 383	ACGTCAATAA	TGACGTATGT	TCCCATAGTA	ACGCCAATAG	GGACTTTCCA	TTGACGTCAA	540
384			100411110111				• • • • • • • • • • • • • • • • • • • •
385	TGGGTGGACT	ATTTACGGTA	AACTGCCCAC	TTGGCAGTAC	ATCAAGTGTA	TCATATGCCA	600
386 387	አ <i>ር</i> ሞአርርርርርር	CTATTGACGT	СУУТСУСССТ	A A A T C C C C C	ССТСССУТТА	тасссастас	660
388	AGIACGCCCC	CIAIIGACGI	CARIGACGGI	AMIGGEEEG	CCIGGCAIIA	roccendino	
389	ATGACCTTAT	GGGACTTTCC	TACTTGGCAG	TACATCTACG	TATTAGTCAT	CGCTATTACC	720
390	> maama> maa	GGTTTTGGCA	CMA CAMCA AM	CCCCCTCCAT	» CCCCmmmc»	CTC A CCCCCCA	780
391 392	ATGGTGATGC	GGTTTTGGCA	GIACAICAAI	GGGCGIGGAI	AGCGGIIIGA	CICACGGGGA	700
393	TTTCCAAGTC	TCCACCCCAT	TGACGTCAAT	GGGAGTTTGT	TTTGGCACCA	AAATCAACGG	840
394				######################################		m)	000
395 396	GACTTTCCAA	AATGTCGTAA	CAACTCCGCC	CCATTGACGC	AAATGGGCGG	TAGGCGTGTA	900
397	CGGTGGGAGG	TCTATATAAG	CAGAGCTGGG	TACGTGAACC	GTCAGATCGC	CTGGAGACGC	960
398							1000
399 400	CATCACAGAT	CTCTCACTAT	GGATTTTCAG	GTGCAGATTA	TCAGCTTCCT	GCTAATCAGT	1020
401	GCTTCAGTCA	TAATGTCCAG	AGGACAAATT	GTTCTCTCCC	AGTCTCCAGC	AATCCTGTCT	1080
402							
403 404	GCATCTCCAG	GGGAGAAGGT	CACAATGACT	TGCAGGGCCA	GCTCAAGTGT	AAGTTACATC	1140
405	CACTGGTTCC	AGCAGAAGCC	AGGATCCTCC	CCCAAACCCT	GGATTTATGC	CACATCCAAC	1200
406							
407	CTGGCTTCTG	GAGTCCCTGT	TCGCTTCAGT	GGCAGTGGGT	CTGGGACTTC	TTACTCTCTC	1260
408 409	ACAATCAGCA	GAGTGGAGGC	TGAAGATGCT	GCCACTTATT	ACTGCCAGCA	GTGGACTAGT	1320
410							
411	AACCCACCCA	CGTTCGGAGG	GGGGACCAAG	CTGGAAATCA	AACGTACGGT	GGCTGCACCA	1380
412 413	TCTGTCTTCA	TCTTCCCGCC	ATCTGATGAG	CAGTTGAAAT	CTGGAACTGC	CTCTGTTGTG	1440
414							
415	TGCCTGCTGA	ATAACTTCTA	TCCCAGAGAG	GCCAAAGTAC	AGTGGAAGGT	GGATAACGCC	1500
416							

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417 418	CTCCAATCGG	GTAACTCCCA	GGAGAGTGTC	ACAGAGCAGG	ACAGCAAGGA	CAGCACCTAC	1560
419	AGCCTCAGCA	GCACCCTGAC	GCTGAGCAAA	GCAGACTACG	AGAAACACAA	AGTCTACGCC	1620
420 421	TGCGAAGTCA	CCCATCAGGG	CCTGAGCTCG	CCCGTCACAA	AGAGCTTCAA	CAGGGGAGAG	1680
422 423	TGTTGAATTC	AGATCCGTTA	ACGGTTACCA	ACTACCTAGA	CTGGATTCGT	GACAACATGC	1740
424 425	GGCCGTGATA	TCTACGTATG	ATCAGCCTCG	ACTGTGCCTT	CTAGTTGCCA	GCCATCTGTT	1800
426 427	GTTTGCCCCT	CCCCCGTGCC	TTCCTTGACC	CTGGAAGGTG	CCACTCCCAC	TGTCCTTTCC	1860
428 429	таатаааатс	AGGAAATTGC	ATCGCATTGT	CTGAGTAGGT	GTCATTCTAT	тстессесст	1920
430	IMINUMIO	MO012212200		010110111001	010111101111	101000001	
431 432	GGGGTGGGGC	AGGACAGCAA	GGGGGAGGAT	TGGGAAGACA	ATAGCAGGCA	TGCTGGGGAT	1980
433 434	GCGGTGGGCT	CTATGGAACC	AGCTGGGGCT	CGACAGCTAT	GCCAAGTACG	CCCCCTATTG	2040
435	ACGTCAATGA	CGGTAAATGG	CCCGCCTGGC	ATTATGCCCA	GTACATGACC	TTATGGGACT	2100
436 437	TTCCTACTTG	GCAGTACATC	TACGTATTAG	TCATCGCTAT	TACCATGGTG	ATGCGGTTTT	2160
438 439	GGCAGTACAT	CAATGGGCGT	GGATAGCGGT	TTGACTCACG	GGGATTTCCA	AGTCTCCACC	2220
440 441	CCATTGACGT	CAATGGGAGT	TTGTTTTGGC	ACCAAAATCA	ACGGGACTTT	CCAAAATGTC	2280
442 443	GTAACAACTC	CGCCCCATTG	ACGCAAATGG	GCGGTAGGCG	TGTACGGTGG	GAGGTCTATA	2340
444							
445 446	TAAGCAGAGC	TGGGTACGTC	CTCACATTCA	GTGATCAGCA	CTGAACACAG	ACCCGTCGAC	2400
447 448	ATGGGTTGGA	GCCTCATCTT	GCTCTTCCTT	GTCGCTGTTG	CTACGCGTGT	CCTGTCCCAG	2460
449 450	GTACAACTGC	AGCAGCCTGG	GGCTGAGCTG	GTGAAGCCTG	GGGCCTCAGT	GAAGATGTCC	2520
451	TGCAAGGCTT	CTGGCTACAC	ATTTACCAGT	TACAATATGC	ACTGGGTAAA	ACAGACACCT	2580
452 453	GGTCGGGGCC	TGGAATGGAT	TGGAGCTATT	TATCCCGGAA	ATGGTGATAC	TTCCTACAAT	2640
454 455	CAGAAGTTCA	AAGGCAAGGC	CACATTGACT	GCAGACAAAT	CCTCCAGCAC	AGCCTACATG	2700
456 457	CAGCTCAGCA	GCCTGACATC	TGAGGACTCT	GCGGTCTATT	ACTGTGCAAG	ATCGACTTAC	2760
458 459	TACGGCGGTG	ACTGGTACTT	CAATGTCTGG	GGCGCAGGGA	CCACGGTCAC	CGTCTCTGCA	2820
460							
461 462	GCTAGCACCA	AGGGCCCATC	GGTCTTCCCC	CTGGCACCCT	CCTCCAAGAG	CACCTCTGGG	2880
463 464	GGCACAGCGG	CCCTGGGCTG	CCTGGTCAAG	GACTACTTCC	CCGAACCGGT	GACGGTGTCG	2940
465 466	TGGAACTCAG	GCGCCCTGAC	CAGCGGCGTG	CACACCTTCC	CGGCTGTCCT	ACAGTCCTCA	3000
467 468	GGACTCTACT	CCCTCAGCAG	CGTGGTGACC	GTGCCCTCCA	GCAGCTTGGG	CACCCAGACC	3060

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469 470	TACATCTGCA	ACGTGAATCA	CAAGCCCAGC	AACACCAAGG	TGGACAAGAA	AGCAGAGCCC	3120
471	AAATCTTGTG	ACAAAACTCA	CACATGCCCA	CCGTGCCCAG	CACCTGAACT	CCTGGGGGGA	3180
472 473	CCGTCAGTCT	TCCTCTTCCC	CCCAAAACCC	AAGGACACCC	TCATGATCTC	CCGGACCCCT	3240
474 475	GAGGTCACAT	GCGTGGTGGT	GGACGTGAGC	CACGAAGACC	CTGAGGTCAA	GTTCAACTGG	3300
476 477	TACGTGGACG	GCGTGGAGGT	GCATAATGCC	AAGACAAAGC	CGCGGGAGGA	GCAGTACAAC	3360
478 479	AGCACGTACC	GTGTGGTCAG	CGTCCTCACC	GTCCTGCACC	AGGACTGGCT	GAATGGCAAG	3420
480 481	CACTACAACT	GCAAGGTCTC	CAACAAACCC	ר <b>יי</b> ררר <i>א</i> כררר	CCATCGAGAA	A A CC A TCTCC	3480
482							
483 484	AAAGCCAAAG	GGCAGCCCCG	AGAACCACAG	GTGTACACCC	TGCCCCCATC	CCGGGATGAG	3540
485 486	CTGACCAAGA	ACCAGGTCAG	CCTGACCTGC	CTGGTCAAAG	GCTTCTATCC	CAGCGACATC	3600
487 488	GCCGTGGAGT	GGGAGAGCAA	TGGGCAGCCG	GAGAACAACT	ACAAGACCAC	GCCTCCCGTG	3660
489 490	CTGGACTCCG	ACGGCTCCTT	CTTCCTCTAC	AGCAAGCTCA	CCGTGGACAA	GAGCAGGTGG	3720
491	CAGCAGGGGA	ACGTCTTCTC	ATGCTCCGTG	ATGCATGAGG	CTCTGCACAA	CCACTACACG	3780
492 493	CAGAAGAGCC	TCTCCCTGTC	TCCGGGTAAA	TGAGGATCCG	TTAACGGTTA	CCAACTACCT	3840
494 495	AGACTGGATT	CGTGACAACA	TGCGGCCGTG	ATATCTACGT	ATGATCAGCC	TCGACTGTGC	3900
496 497	CTTCTAGTTG	CCAGCCATCT	GTTGTTTGCC	CCTCCCCCGT	GCCTTCCTTG	ACCCTGGAAG	3960
498 499	GTGCCACTCC	CACTGTCCTT	TCCTAATAAA	ATGAGGAAAT	TGCATCGCAT	TGTCTGAGTA	4020
500 501	GGTGTCATTC	TATTCTGGGG	GGTGGGGTGG	GGCAGGACAG	CAAGGGGGAG	GATTGGGAAG	4080
502 503		GCATGCTGGG					4140
504							
505 506	GCTGGATCTC	CCGATCCCCA	GCTTTGCTTC	TCAATTTCTT	ATTTGCATAA	TGAGAAAAA	4200
507 508	AGGAAAATTA	ATTTTAACAC	CAATTCAGTA	GTTGATTGAG	CAAATGCGTT	GCCAAAAAGG	4260
509 510	ATGCTTTAGA	GACAGTGTTC	TCTGCACAGA	TAAGGACAAA	CATTATTCAG	AGGGAGTACC	4320
511 512	CAGAGCTGAG	ACTCCTAAGC	CAGTGAGTGG	CACAGCATTC	TAGGGAGAAA	TATGCTTGTC	4380
513	ATCACCGAAG	CCTGATTCCG	TAGAGCCACA	CCTTGGTAAG	GGCCAATCTG	CTCACACAGG	4440
514 515	ATAGAGAGGG	CAGGAGCCAG	GGCAGAGCAT	ATAAGGTGAG	GTAGGATCAG	TTGCTCCTCA	4500
516 517	CATTTGCTTC	TGACATAGTT	GTGTTGGGAG	CTTGGATAGC	TTGGACAGCT	CAGGGCTGCG	4560
518 519	ATTTCGCGCC	AAACTTGACG	GCAATCCTAG	CGTGAAGGCT	GGTAGGATTT	TATCCCCGCT	4620
520							

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521 522	GCCATCATGG	TTCGACCATT	GAACTGCATC	GTCGCCGTGT	CCCAAAATAT	GGGGATTGGC	4680
523 524	AAGAACGGAG	ACCTACCCTG	GCCTCCGCTC	AGGAACGAGT	TCAAGTACTT	CCAAAGAATG	4740
525	ACCACAACCT	CTTCAGTGGA	AGGTAAACAG	AATCTGGTGA	TTATGGGTAG	GAAAACCTGG	4800
526 527	TTCTCCATTC	CTGAGAAGAA	TCGACCTTTA	AAGGACAGAA	TTAATATAGT	TCTCAGTAGA	4860
528 529	GAACTCAAAG	AACCACCACG	AGGAGCTCAT	TTTCTTGCCA	AAAGTTTGGA	TGATGCCTTA	4920
530 531	AGACTTATTG	AACAACCGGA	ATTGGCAAGT	AAAGTAGACA	TGGTTTGGAT	AGTCGGAGGC	4980
532 533	AGTTCTGTTT	ACCAGGAAGC	CATGAATCAA	CCAGGCCACC	TTAGACTCTT	TGTGACAAGG	5040
534 535	ATCATGCAGG	AATTTGAAAG	TGACACGTTT	TTCCCAGAAA	TTGATTTGGG	GAAATATAAA	5100
536 537	CTTCTCCCAG	AATACCCAGG	CGTCCTCTCT	GAGGTCCAGG	AGGAAAAAGG	CATCAAGTAT	5160
538							
539 540	AAGTTTGAAG	TCTACGAGAA	GAAAGACTAA	CAGGAAGATG	CTTTCAAGTT	CTCTGCTCCC	5220
541 542	CTCCTAAAGC	TATGCATTTT	TATAAGACCA	TGGGACTTTT	GCTGGCTTTA	GATCAGCCTC	5280
543 544	GACTGTGCCT	TCTAGTTGCC	AGCCATCTGT	TGTTTGCCCC	TCCCCCGTGC	CTTCCTTGAC	5340
545 546	CCTGGAAGGT	GCCACTCCCA	CTGTCCTTTC	CTAATAAAAT	GAGGAAATTG	CATCGCATTG	5400
547 548	TCTGAGTAGG	TGTCATTCTA	TTCTGGGGGG	TGGGGTGGGG	CAGGACAGCA	AGGGGGAGGA	5460
549 550	TTGGGAAGAC	AATAGCAGGC	ATGCTGGGGA	TGCGGTGGGC	TCTATGGAAC	CAGCTGGGGC	5520
551	TCGAGCTACT	AGCTTTGCTT	CTCAATTTCT	TATTTGCATA	ATGAGAAAAA	AAGGAAAATT	5580
552 553	AATTTTAACA	CCAATTCAGT	AGTTGATTGA	GCAAATGCGT	TGCCAAAAAG	GATGCTTTAG	5640
554 555	AGACAGTGTT	CTCTGCACAG	ATAAGGACAA	ACATTATTCA	GAGGGAGTAC	CCAGAGCTGA	5700
556 557	GACTCCTAAG	CCAGTGAGTG	GCACAGCATT	CTAGGGAGAA	ATATGCTTGT	CATCACCGAA	5760
558 559	CCCTC A TITCC	CTACACCCAC	ACCTTGGTAA	רכככבא <b>א</b> ייכיי	CCTCACACAC	СУТУСУСУСС	5820
560	GCCTGATTCC	GTAGAGCCAC	ACCIIGGIAA	GGGCCAATCT	GCTCACACAG	GAIAGAGAGG	3020
561 562	GCAGGAGCCA	GGGCAGAGCA	TATAAGGTGA	GGTAGGATCA	GTTGCTCCTC	ACATTTGCTT	5880
563 564	CTGACATAGT	TGTGTTGGGA	GCTTGGATCG	ATCCTCTATG	GTTGAACAAG	ATGGATTGCA	5940
565	CGCAGGTTCT	CCGGCCGCTT	GGGTGGAGAG	GCTATTCGGC	TATGACTGGG	CACAACAGAC	6000
566 567	AATCGGCTGC	TCTGATGCCG	CCGTGTTCCG	GCTGTCAGCG	CAGGGGCGCC	CGGTTCTTTT	6060
568 569	ТСТСАВСАСС	GACCTGTCCG	GTGCCCTGA A	TGAACTGCAG	GACGAGGCAG	CGCGGCTATC	6120
570		55	Jesovan			30030011110	
571 572	GTGGCTGGCC	ACGACGGGCG	TTCCTTGCGC	AGCTGTGCTC	GACGTTGTCA	CTGAAGCGGG	6180

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573	AAGGGACTGG	CTGCTATTGG	GCGAAGTGCC	GGGGCAGGAT	CTCCTGTCAT	CTCACCTTGC	6240
574 575	TCCTGCCGAG	AAAGTATCCA	TCATGGCTGA	TGCAATGCGG	CGGCTGCATA	CGCTTGATCC	6300
576 577	GGCTACCTGC	CCATTCGACC	ACCAAGCGAA	ACATCGCATC	GAGCGAGCAC	GTACTCGGAT	6360
578 579	GGAAGCCGGT	CTTGTCGATC	AGGATGATCT	GGACGAAGAG	CATCAGGGGC	TCGCGCCAGC	6420
580 581	CGAACTGTTC	GCCAGGCTCA	AGGCGCGCAT	GCCCGACGGC	GAGGATCTCG	TCGTGACCCA	6480
582 583 584	TGGCGATGCC	TGCTTGCCGA	ATATCATGGT	GGAAAATGGC	CGCTTTTCTG	GATTCATCGA	6540
585 586	CTGTGGCCGG	CTGGGTGTGG	CGGACCGCTA	TCAGGACATA	GCGTTGGCTA	CCCGTGATAT	6600
587 588	TGCTGAAGAG	CTTGGCGGCG	AATGGGCTGA	CCGCTTCCTC	GTGCTTTACG	GTATCGCCGC	6660
589 590	TCCCGATTCG	CAGCGCATCG	CCTTCTATCG	CCTTCTTGAC	GAGTTCTTCT	GAGCGGGACT	6720
591 592	CTGGGGTTCG	AAATGACCGA	CCAAGCGACG	CCCAACCTGC	CATCACGAGA	TTTCGATTCC	6780
593 594	ACCGCCGCCT	TCTATGAAAG	GTTGGGCTTC	GGAATCGTTT	TCCGGGACGC	CGGCTGGATG	6840
595 596	ATCCTCCAGC	GCGGGGATCT	CATGCTGGAG	TTCTTCGCCC	ACCCCAACTT	GTTTATTGCA	6900
597 598	GCTTATAATG	GTTACAAATA	AAGCAATAGC	ATCACAAATT	TCACAAATAA	AGCATTTTT	6960
599 600	TCACTGCATT	CTAGTTGTGG	TTTGTCCAAA	CTCATCAATC	TATCTTATCA	TGTCTGGATC	7020
601 602	GCGGCCGCGA	TCCCGTCGAG	AGCTTGGCGT	AATCATGGTC	ATAGCTGTTT	CCTGTGTGAA	7080
603 604	ATTGTTATCC	GCTCACAATT	CCACACAACA	TACGAGCCGG	AAGCATAAAG	TGTAAAGCCT	7140
605 606	GGGGTGCCTA	ATGAGTGAGC	TAACTCACAT	TAATTGCGTT	GCGCTCACTG	CCCGCTTTCC	7200
607 608	AGTCGGGAAA	CCTGTCGTGC	CAGCTGCATT	AATGAATCGG	CCAACGCGCG	GGGAGAGGCG	7260
609 610		TGGGCGCTCT					7320
611 612		AGCGGTATCA					7380
613 614						AACCGTAAAA	
616						CACAAAAATC	
617 618						GCGTTTCCCC	
619 620						TACCTGTCCG	7620
621 622						TATCTCAGTT	7680
623 624	CGGTGTAGGT	CGTTCGCTCC	AAGCTGGGCT	GTGTGCACGA	ACCCCCCGTT	CAGCCCGACC	7740

675

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# Patent Application US/07/978,891A

625	GCTGCGCCTT	ATCCGGTAAC	TATCGTCTTG	AGTCCAACCC	GGTAAGACAC	GACTTATCGC	7800
626 627	CACTGGCAGC	AGCCACTGGT	AACAGGATTA	GCAGAGCGAG	GTATGTAGGC	GGTGCTACAG	7860
628	<b>C.1.0.1.0.0</b>	1100011011	11101100111111	00	011110111000	001001110110	
629 630	AGTTCTTGAA	GTGGTGGCCT	AACTACGGCT	ACACTAGAAG	GACAGTATTT	GGTATCTGCG	7920
631 632	CTCTGCTGAA	GCCAGTTACC	TTCGGAAAAA	GAGTTGGTAG	CTCTTGATCC	GGCAAACAAA	7980
633	CCACCGCTGG	TAGCGGTGGT	TTTTTTGTTT	GCAAGCAGCA	GATTACGCGC	AGAAAAAAG	8040
634 635	GATCTCAAGA	AGATCCTTTG	ATCTTTTCTA	CGGGGTCTGA	CGCTCAGTGG	AACGAAAACT	8100
636							
637 638	CACGTTAAGG	GATTTTGGTC	ATGAGATTAT	CAAAAAGGAT	CTTCACCTAG	ATCCTTTTAA	8160
639 640	ATTAAAAATG	AAGTTTTAAA	TCAATCTAAA	GTATATATGA	GTAAACTTGG	TCTGACAGTT	8220
641	ACCAATGCTT	AATCAGTGAG	GCACCTATCT	CAGCGATCTG	TCTATTTCGT	TCATCCATAG	8280
642 643	TTGCCTGACT	CCCCGTCGTG	TAGATAACTA	CGATACGGGA	GGGCTTACCA	TCTGGCCCCA	8340
644							
645 646	GTGCTGCAAT	GATACCGCGA	GACCCACGCT	CACCGGCTCC	AGATTTATCA	GCAATAAACC	8400
647 648	AGCCAGCCGG	AAGGGCCGAG	CGCAGAAGTG	GTCCTGCAAC	TTTATCCGCC	TCCATCCAGT	8460
649	CTATTAATTG	TTGCCGGGAA	GCTAGAGTAA	GTAGTTCGCC	AGTTAATAGT	TTGCGCAACG	8520
650 651	TTGTTGCCAT	TGCTACAGGC	ATCGTGGTGT	CACGCTCGTC	GTTTGGTATG	GCTTCATTCA	8580
652 653	GCTCCGGTTC	CCAACGATCA	AGGCGAGTTA	CATGATCCCC	CATGTTGTGC	AAAAAAGCGG	8640
654							
655 656	TTAGCTCCTT	CGGTCCTCCG	ATCGTTGTCA	GAAGTAAGTT	GGCCGCAGTG	TTATCACTCA	8700
657 658	TGGTTATGGC	AGCACTGCAT	AATTCTCTTA	CTGTCATGCC	ATCCGTAAGA	TGCTTTTCTG	8760
659	TGACTGGTGA	GTACTCAACC	AAGTCATTCT	GAGAATAGTG	TATGCGGCGA	CCGAGTTGCT	8820
660							
661 662	CTTGCCCGGC	GTCAATACGG	GATAATACCG	CGCCACATAG	CAGAACTTTA	AAAGTGCTCA	8880
663 664	TCATTGGAAA	ACGTTCTTCG	GGGCGAAAAC	TCTCAAGGAT	CTTACCGCTG	TTGAGATCCA	8940
665	GTTCGATGTA	ACCCACTCGT	GCACCCAACT	GATCTTCAGC	ATCTTTTACT	TTCACCAGCG	9000
666 667	TTTCTGGGTG	AGCAAAAACA	GGAAGGCAAA	ATGCCGCAAA	AAAGGGAATA	AGGGCGACAC	9060
668 669	GGAAATGTTG	AATACTCATA	CTCTTCCTTT	TTCAATATTA	TTGAAGCATT	TATCAGGGTT	9120
670							
671 672	ATTGTCTCAT	GAGCGGATAC	ATATTTGAAT	GTATTTAGAA	AAATAAACAA	ATAGGGGTTC	9180
673 674	CGCGCACATT	TCCCCGAAAA	GTGCCACCT				9209

676 (4) INFORMATION FOR SEQ ID NO.: 3:

#### Raw Sequence Listing

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```
677
             SEQUENCE CHARACTERISTICS:
678
     (i)
679
                                      7 are 15 ted.
             LENGTH: (54 bases)
680
     (A)
681
     (B)
             TYPE: nucleic acid
682
     (C)
             STRANDEDNESS: single
683
     (D)
             TOPOLOGY: linear
684
            MOLECULE TYPE: DNA (genomic)
685
     (ii)
686
     (iii) HYPOTHETICAL: no
687
688
689
     (iv)
            ANTI-SENSE: no
690
691
     (ix)
            SEQUENCE DESCRIPTION: SEQ ID NO.: 3:
692
                                                                      (52) 45
693 ATC ACA GAT CTC TCA CCA TGG ATT TTC AGG TBC AGA TTA TCA GCT
694
    TC
695
             INFORMATION FOR SEQ ID NO.: 4:
696
     (5)
697
             SEQUENCE CHARACTERISTICS:
698
     (i)
699
700
            LENGTH: 30 bases
     (A)
701
             TYPE: nucleic acid
     (B)
702
     (C)
             STRANDEDNESS: single
             TOPOLOGY: linear
703
     (D)
704
705
     (ii)
            MOLECULE TYPE: DNA (genomic)
706
     (iii) HYPOTHETICAL: no
707
708
709
     (iv)
            ANTI-SENSE: yes
710
711
     (ix)
             SEQUENCE DESCRIPTION:
                                    SEQ ID NO.: 4:
712
713
    TGC AGC ATC CGT ACG TTT GAT TTC CAG CTT
                                                        30
714
715
     (6)
             INFORMATION FOR SEQ ID NO.: 5:
716
717
     (i)
             SEQUENCE CHARACTERISTICS:
718
719
     (A)
             LENGTH: 384 bases
720
     (B)
             TYPE: nucleic acid
721
     (C)
             STRANDEDNESS: single
722
             TOPOLOGY: linear
     (D)
723
724
     (ii)
            MOLECULE TYPE: DNA (genomic)
725
726
     (iii)
            HYPOTHETICAL: no
727
728
     (iv)
             ANTI-SENSE: no
```

## Raw Sequence Listing

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729 730 731 732	(ix)	SEQUENCE DESCRIPTION: SEQ ID NO.: 5:										
733	ATG GAT	TTT CAG GTG CAG ATT ATC AGC TTC CTG CTA ATC AGT GCT TCA GTC 51										
734 735	ата атс	TCC AGA GGG CAA ATT GTT CTC TCC CAG TCT CCA GCA ATC CTG TCT 102										
736												
737	GCA TCT	CCA GGG GAG AAG GTC ACA ATG ACT TGC AGG GCC AGC TCA AGT GTA 153										
738 739	አርጥ ጥልሮ	ATC CAC TGG TTC CAG CAG AAG CCA GGA TCC TCC CCC AAA CCC TGG 204										
740												
741	ATT TAT	GCC ACA TCC AAC CTG GCT TCT GGA GTC CCT GTT CGC TTC AGT GGC 255										
742 743	א כידי כיככ	TCT GGG ACT TCT TAC TCT CTC ACA ATC AGC AGA GTG GAG GCT GAA 306										
744	AGI GGG	THE GGG ACT THE THE HEE ACE ARE AGE AGA GIG GAG GET GAA										
745	GAT GCT	GCC ACT TAT TAC TGC CAG CAG TGG ACT AGT AAC CCA CCC ACG TTC 357										
746												
747 748	GGA GGG	GGG ACC AAG CTG GAA ATC AAA 384										
748 749												
750	(7)	INFORMATION FOR SEQ ID NO.: 6:										
751												
752	(i)	SEQUENCE CHARACTERISTICS:										
753												
754	(A)	LENGTH: 27 bases										
755	(B)	TYPE: nucleic acid										
756	(C)	STRANDEDNESS: single										
757 758	(D)	TOPOLOGY: linear										
759	(ii)	MOLECULE TYPE: DNA (genomic)										
760	(11)	MODECOLD III . DAR (genomic)										
761	(iii)	HYPOTHETICAL: no										
762	` '											
763	(iv)	ANTI-SENSE: no										
764												
765	(ix)	SEQUENCE DESCRIPTION: SEQ ID NO.: 6:										
766 767												
768	מרמ מרד	CCC ACG CGT GTC CTG TCC CAG 27										
769	GCG GCI	the region of the transfer that the region of the region o										
770												
771	(8)	INFORMATION FOR SEQ ID NO.: 7:										
772												
773	(i)	SEQUENCE CHARACTERISTICS:										
774												
775	(A)	LENGTH: 29 bases TYPE: nucleic acid										
776 777	(B) (C)	STRANDEDNESS: single										
778	(D)	TOPOLOGY: linear										
779	,											
780	(ii)	MOLECULE TYPE: DNA (genomic)										

## Raw Sequence Listing

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781 782	(iii) H	YPOTE	ETIC	CAL:	no												
783	( )	3 3707 7		1012.		_											
784 785	(iv)	ANTI	-SEP	NSE:	yes	3											
786 787	(ix)	SEQU	JENCE	DES	CRI	PTIO	V: 5	SEQ I	D NO	o.:	7:						
788 789	GGS TGT	TGT	GCT	AGC	TGM	RGA	GAC	RGT	GA				29				·
790	(9)	INFOR	TAMS	ON I	OR S	SEQ :	D NO	o.:	8:								
791						T		<b>a</b> .									
792 793	(1)	(i) SEQUENCE CHARACTERISTICS:															
794	(A)	LENG	TH:	420	) bas	ses											
795	(B)	TYPE	2: r	nucle	eic a	acid											
796	(C)	STRA	NDEI	NES	3: a	sing	Le										
797	(D)	TOPO	LOG	<b>:</b> :	line	ar											
798																	
799	(ii)	MOLE	CULE	TY	PE:	DNA	(gei	nomi	2)								
800																	
801	(iii) H	YPOTE	KTI(	CAL:	no												
802 803	(iv)	ANTI	- C -	ice.	no												
804	(14)	WMII	- SEI	NDE.	110												
805	(ix)	SEQU	IENCE	S DES	SCRI	PTIO	<b>v</b> : :	SEO :	ID NO	o.:	8:						
806	(===,																
807																	
808	ATG GGT	TGG	AGC	CTC	ATC	TTG	CTC	TTC	CTT	GTC	GCT	GTT	GCT	ACG	CGT	GTC	51
809																	
810	CTG TCC	CAG	GTA	CAA	CTG	CAG	CAG	CCT	GGG	GCT	GAG	CTG	GTG	AAG	CCT	GGG	102
811																	150
812	GCC TCA	GTG	AAG	ATG	TCC	TGC	AAG	GCT	TCT	GGC	TAC	ACA	TTT	ACC	AGT	TAC	153
813 814	AAT ATG	as a	maa	OIII N	222	C A C	202	COTT	CCT	acc	ccc	CTC	CAA	TCC	አጥጥ	CCA	204
815	AAI AIG	CAC	166	GIA	AAA	CAG	ACA	CCI	GGI	CGG	GGC	CIG	GAA	166	AII.	GGA	201
816	GCT ATT	ТАТ	CCC	GGA	аат	GGT	GAT	ACT	TCC	TAC	AAT	CAG	AAG	TTC	AAA	GGC	255
817				00													
818	AAG GCC	ACA	TTG	ACT	GCA	GAC	AAA	TCC	TCC	AGC	ACA	GCC	TAC	ATG	CAG	CTC	306
819																	
820	AGC AGC	CTG	ACA	TCT	GAG	GAC	TCT	GCG	GTC	TAT	TAC	TGT	GCA	AGA	TCG	ACT	357
821																	400
822	TAC TAC	GGC	GGT	GAC	TGG	TAC	TTC	AAT	GTC	TGG	GGC	GCA	GGG	ACC	ACG	GTC	408
823	3.00 OF	mam	<b>a</b> as														420
824 825	ACC GTC	TCT	GCA														720
826																	
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## Raw Sequence Listing

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Patent Application US/07/978,891A

838 839 840 PAGE: 1

SEQUENCE VERIFICATION REPORT PATENT APPLICATION US/07/978,891A

DATE: 04/08/93 TIME: 12:15:47

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LINE ERROR

ORIGINAL TEXT

691 Entered and Calc. Seq. Length differ

(ix) SEQUENCE DESCRIPTION: SEQ ID NO

PAGE: 1

SEQUENCE MISSING ITEM REPORT PATENT APPLICATION US/07/978,891A

DATE: 04/08/93 TIME: 12:15:47

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MANDATORY IDENTIFIER THAT WAS NOT FOUND

PRIOR APPLICATION DATA APPLICATION NUMBER FILING DATE

7

PAGE: 1 SEQUENCE CORRECTION REPORT PATENT APPLICATION US/07/978,891A

DATE: 04/08/93 TIME: 12:15:47

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#### LINE ORIGINAL TEXT

805

(ix)

#### GENERAL INFORMATION (1) 12 (iv) CORRESPONDING ADDRESS: 25 (C) OPERATING SYSTEM: MS.DOS INFORMATION FOR SEQ ID NO.: 1: 45 (2) 60 SEQUENCE DESCRIPTION: SEQ ID NO (ix) INFORMATION FOR SEQ ID NO.: 2: 349 (3) 364 (ix) SEQUENCE DESCRIPTION: SEQ ID NO 676 INFORMATION FOR SEQ ID NO.: 3: (4) 691 (ix) SEQUENCE DESCRIPTION: SEQ ID NO INFORMATION FOR SEQ ID NO.: 4: 696 (5) 711 (ix) SEQUENCE DESCRIPTION: SEQ ID NO 715 INFORMATION FOR SEQ ID NO.: 5: (6) 730 (ix) SEQUENCE DESCRIPTION: SEQ ID NO 750 INFORMATION FOR SEQ ID NO.: 6: (7) 765 (ix) SEQUENCE DESCRIPTION: SEQ ID NO INFORMATION FOR SEQ ID NO.: 7: 771 (8) 786 SEQUENCE DESCRIPTION: SEQ ID NO (ix) INFORMATION FOR SEQ ID NO.: 8: 790 (9)

SEQUENCE DESCRIPTION: SEQ ID NO

#### CORRECTED TEXT

(1)	GENERA	L INF	ORMA:	TION:	:			
(iv)	CORRE	SPOND	ENCE	ADDF	RESS	3:		
(C)	OPERAT	ING S	YSTE	<b>1:</b> 1	IS.I	oos		
(2)	INFORM	ATION	FOR	SEQ	ID	NO:	1:	
(ix)	SEQUE	NCE D	ESCR	EPTIC	: NC	SEQ	ID	No:
(2)	INFORM	ATION	FOR	SEQ	ID	NO:	2:	
(ix)	SEQUE	NCE D	ESCR	[PTIC	: MC	SEQ	ID	NO:
(2)	INFORM	ATION	FOR	SEQ	ID	NO:	3:	
(ix)	SEQUE	NCE D	ESCR	EPTIC	: MC	SEQ	ID	NO:
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	SEQUE							NO:
(2)	INFORM	ATION	FOR	SEQ	ID	NO:	5:	
(ix)	SEQUE	NCE D	ESCR:	EPTIC	: MC	SEQ	ID	NO:
(2)	INFORM	ATION	FOR	SEQ	ID	NO:	6:	
	SEQUE							NO:
	INFORM							
(ix)	SEQUE	NCE D	ESCR	PTIC	on:	SEQ	ID	NO:
	INFORM						8:	

(ix) SEQUENCE DESCRIPTION: SEQ ID NO: